

Title (en)
A DYNAMIC POWER CABLE

Title (de)
DYNAMISCHES STROMKABEL

Title (fr)
CÂBLE DE PUISSANCE DYNAMIQUE

Publication
EP 3438993 B1 20211006 (EN)

Application
EP 17306030 A 20170802

Priority
EP 17306030 A 20170802

Abstract (en)
[origin: EP3438993A1] The present invention relates to a method of manufacturing a dynamic power cable (1) comprising the steps of: - providing a cable core (2) comprising; an electrical conductor (3) and an electrically insulating layer (4) arranged radially outside of the electrical conductor (3), - wrapping a metallic sheet (7) radially around the cable core (2), the metallic sheet (7) comprising a copper-nickel alloy, - welding (8) together opposing edges of the metallic sheet (7) to form a continuous water barrier layer (5) around the cable core (2), wherein - the welding (8) is performed by autogenous welding. Furthermore, the invention relates to a dynamic power cable manufactured according to such a method, and the use of autogenous welding to form a water barrier layer (5) in a dynamic power cable (1).

IPC 8 full level
C22C 9/06 (2006.01); **H01B 1/02** (2006.01); **H01B 7/04** (2006.01); **H01B 7/14** (2006.01); **H01B 7/282** (2006.01); **H01B 13/26** (2006.01)

CPC (source: EP KR US)
C22C 9/06 (2013.01 - EP US); **H01B 1/026** (2013.01 - EP KR US); **H01B 7/14** (2013.01 - US); **H01B 7/2825** (2013.01 - EP US); **H01B 9/021** (2013.01 - US); **H01B 11/1817** (2013.01 - KR); **H01B 11/1834** (2013.01 - KR); **H01B 13/0036** (2013.01 - US); **H01B 13/22** (2013.01 - US); **H01B 13/264** (2013.01 - EP US); **H01B 7/045** (2013.01 - EP US); **Y02A 30/14** (2017.12 - EP)

Citation (examination)
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• P. FERRO ET AL: "Laser welding of copper-nickel alloys: a numerical and experimental analysis", SCIENCE AND TECHNOLOGY OF WELDING AND JOINING, vol. 10, no. 3, 1 June 2005 (2005-06-01), GB, pages 299 - 310, XP055672077, ISSN: 1362-1718, DOI: 10.1179/174329305X40615

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Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3438993 A1 20190206; EP 3438993 B1 20211006; DK 3438993 T3 20211220; KR 20190014486 A 20190212; US 2019066871 A1 20190228

DOCDB simple family (application)
EP 17306030 A 20170802; DK 17306030 T 20170802; KR 20180090071 A 20180801; US 201816048790 A 20180730